

Comparison of 16 station D0ln schedules with PPP CLSM

Specifications:

schedules: stat16_12_3p5D0ln
stat16_6_2p1D0ln
stat16_4p5_2p1D0ln
stat16_3_0p7D0ln
stat16_1p5_0p7D0ln

clk: ASD 1e-14 @ 15 min, random walk + integrated random walk
zwd: Vienna turbulence (standard)
wn: $4/\sqrt{2}$ ps per station

zwd: 6 min, 48 mm/h
grd: 6 min, 0.5 mm/h
clk: 1h, 54 mm/h

The figure below shows rms of 3D position error for all 16 stations of the schedules listed above. The median rms for each schedule is given in the legend. Comparisons carried out with OCCAM showed that there is only a very small improvement in baseline length repeatabilities when going from antennas with slew speeds of 6 and 2.1 °/s in azimuth and elevation to antennas with slew speeds of 12 and 3.5 °/s. Similar to these results, no significant difference can be observed in the median rms of 3D position error between the 6_2p1D0ln and the 12_3p5D0ln schedule when using PPP.



